

Appl. No. 10/004,439  
Response Dated October 24, 2005  
Reply to Office Action of July 22, 2005

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (Currently Amended) A method to configure a network device, comprising:  
receiving a request to configure a first permanent virtual circuit (PVC) between a digital subscriber line (DSL) device and a DSL access module (DSLAM); and  
automatically configuring said first PVC ~~using one of a plurality of PVC auto-configuration algorithms including~~  
selecting a first PVC auto-configuration algorithm;  
executing said selected PVC auto-configuration algorithm;  
determining whether said first PVC has been configured; and  
selecting a second PVC auto-configuration algorithm in accordance with said determination.
2. (Canceled)
3. (Currently Amended) The method of claim [[2]] 1, wherein said selecting a second PVC auto-configuration algorithm comprises:  
determining said first PVC auto-configuration algorithm has failed;  
analyzing results of said first PVC auto-configuration algorithm; and  
selecting said second PVC auto-configuration algorithm using said results.

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4. (Previously Presented) The method of claim 1, further comprising:  
receiving a request to configure a second PVC for said DSL device;  
receiving configuration information for said second PVC; and  
configuring said second PVC using said configuration information.
5. (Previously Presented) The method of claim 4, wherein said configuration information may comprise a virtual channel identifier (VCI) and a virtual path identifier (VPI).
6. (Currently Amended) The method of claim 1, ~~wherein~~ each of said PVC configuration algorithms ~~comprise a PVC auto-configuration algorithm consisting essentially one of the following:~~ further comprising at least one of a PVC hunt, an integrated local management interface (ILMI) PVC auto-configuration, and or PVC probing.
7. (Currently Amended) The method of claim 1, further comprising:  
sending a message that said first PVC was not configured after each of said ~~plurality~~  
~~of~~ PVC auto-configuration algorithms have been used; and  
receiving configuration information for said first PVC from a user.
8. (Currently Amended) A system to configure a network device, comprising:  
a digital subscriber line (DSL) customer premise equipment (CPE);

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a DSL access module (DSLAM) connected to said DSL CPE; and  
a DSL configuration manager to configure a permanent virtual circuit (PVC) between  
said DSL CPE and said DSLAM ~~using one of a plurality of auto-configuration  
algorithms, the DSL configuration manager to further  
select a first PVC auto-configuration algorithm;  
execute said selected PVC auto-configuration algorithm;  
determine whether said first PVC has been configured; and  
select a second PVC auto-configuration algorithm in accordance with said  
determination.~~

9. (Currently Amended) The system of claim 8, ~~wherein~~ said DSL CPE ~~comprises~~  
~~a DSL CPE consisting essentially one of the following:~~ further comprising at least  
one of an asynchronous DSL (ADSL)/asynchronous transfer mode (ATM) router ~~and or~~  
an ADSL/ATM bridge.

10. (Previously Presented) The system of claim 8, wherein said PVC may be  
configured using configuration information comprising a virtual channel identifier (VCI)  
and a virtual path identifier (VPI).

11. (Currently Amended) A configuration manager for a network device, comprising:  
a detection module to detect connection of a digital subscriber line (DSL) device with  
a DSL access module (DSLAM);

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a configuration module to configure a permanent virtual circuit (PVC) between said DSL device and said DSLAM ~~using one of a plurality of PVC auto-configuration algorithms, said configuration module including~~  
a selection module to select a PVC auto-configuration algorithm;  
a validation module to confirm configuration of said PVC; and  
an analysis module to provide selection information to said selection module  
to select another PVC auto-configuration algorithm in accordance with  
results from said validation module.

12. (Canceled)

13. (Previously Presented) The configuration manager of claim 11, wherein said PVC may be configured using configuration information comprising a virtual channel identifier (VCI) and a virtual path identifier (VPI).

14. (Currently Amended) An article comprising:

a storage medium;

said storage medium including stored instructions that, when executed by a processor, result in receiving a request to configure a first permanent virtual circuit (PVC) between a digital subscriber line (DSL) device and a DSL access module (DSLAM), and automatically configuring said first PVC ~~using one of a plurality of PVC auto-configuration algorithms~~ by selecting a first PVC auto-configuration algorithm, executing said selected PVC auto-configuration algorithm, determining

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whether said first PVC has been configured, and selecting a second PVC auto-configuration algorithm in accordance with said determination.

15. (Canceled)

16. (Currently Amended) The article of claim 14, wherein the stored instructions, when executed by a processor, result in selecting ~~[[a]]~~ the second PVC auto-configuration algorithm by determining said first PVC auto-configuration algorithm has failed, analyzing results of said first PVC auto-configuration algorithm, and selecting said second PVC auto-configuration algorithm using said results.

17. (Previously Presented) The article of claim 14, wherein the stored instructions, when executed by a processor, further result in receiving a request to configure a second PVC for said DSL device, receiving configuration information for said second PVC, and configuring said second PVC using said configuration information.

18. (Currently Amended) The article of claim 14, wherein the stored instructions, when executed by a processor, further result in sending a message that said first PVC was not configured after each of said ~~plurality of~~ PVC auto-configuration algorithms have been used, and receiving configuration information for said first PVC from a user.